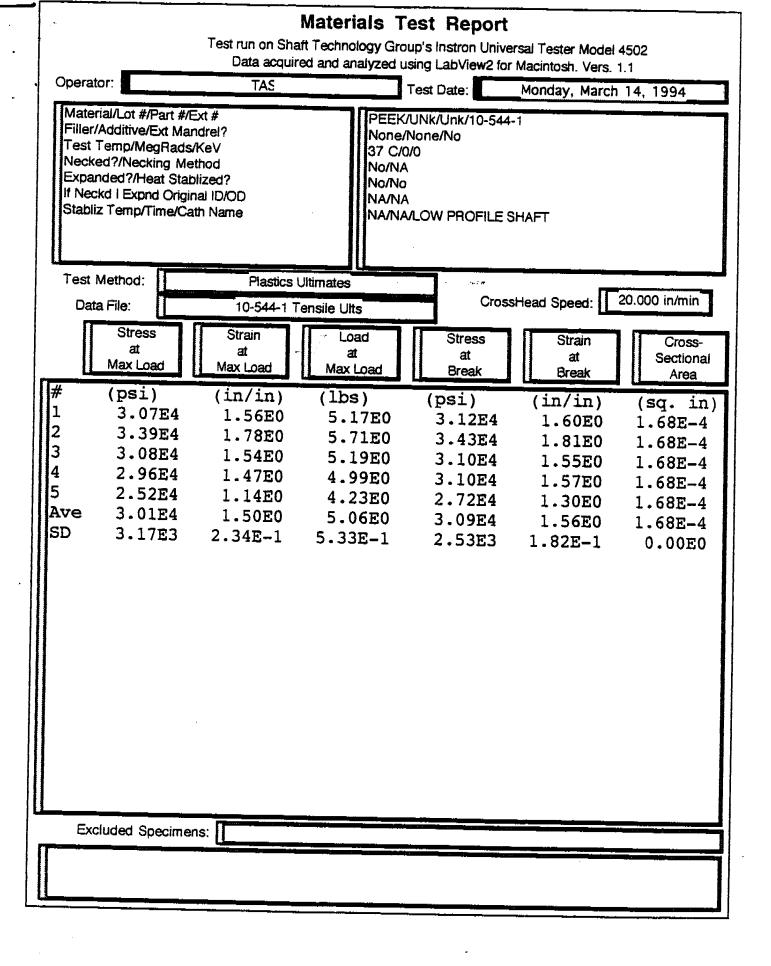
U.S. Ser. No. 09/143,503 U.S. Control No. 90/004,946

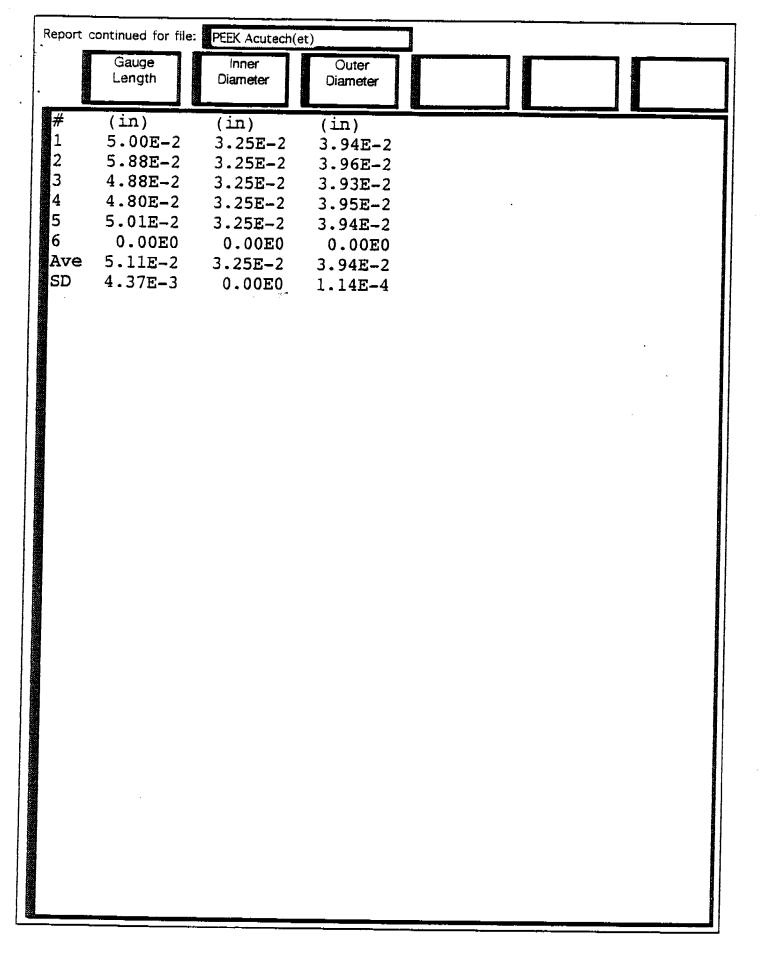
Exhibit 13

Test run on Shaft Technology Group's Instron Universal Tester Model 4502 Data acquired and analyzed using LabView2 for Macintosh. Vers. 1,1								
• Opera	itor:	TAS		Test Date:	والمناز والمناز والمناز والمناز والمناز		4, 1994	
Filler Test Neck Expa	erial/Lot #/Part #/ r/Additive/Ext Ma Temp/MegRads ked?/Necking Me anded?/Heat Sta ckd I Expnd Origi liz Temp/Time/Ca	indrel? s/KeV ethod blized? inal ID/OD	None/ 37 C/0 No/NA No/No NA/NA	•				
	Method:		Ultimates ensile Ults	CrossHood Speed 20 000 i				
	Stress at Max Load	Strain at Max Load	Load at Max Load	Stres at Brea	SS Str	rain at eak	Cross- Sectional Area	
# 1 2 3 4 5 Ave SD	(psi) 1.67E4 1.71E4 1.81E4 1.53E4 1.95E4 1.73E4 1.56E3	(in/in) 1.25E0 1.28E0 1.41E0 1.07E0 1.55E0 1.31E0 1.81E-1	(1bs) 4.53E0 4.62E0 4.91E0 4.14E0 5.28E0 4.70E0 4.24E-1	(psi) 1.75 1.71 1.81 1.57 1.95 1.76	(in/ E4 1.3 E4 1.2 E4 1.4 E4 1.1 E4 1.5 E4 1.5	in) 4E0 8E0 1E0 2E0 6E0 4E0	(sq. in) 2.71E-4 2.71E-4 2.71E-4 2.71E-4 2.71E-4 0.00E0	
Excluded Specimens:								

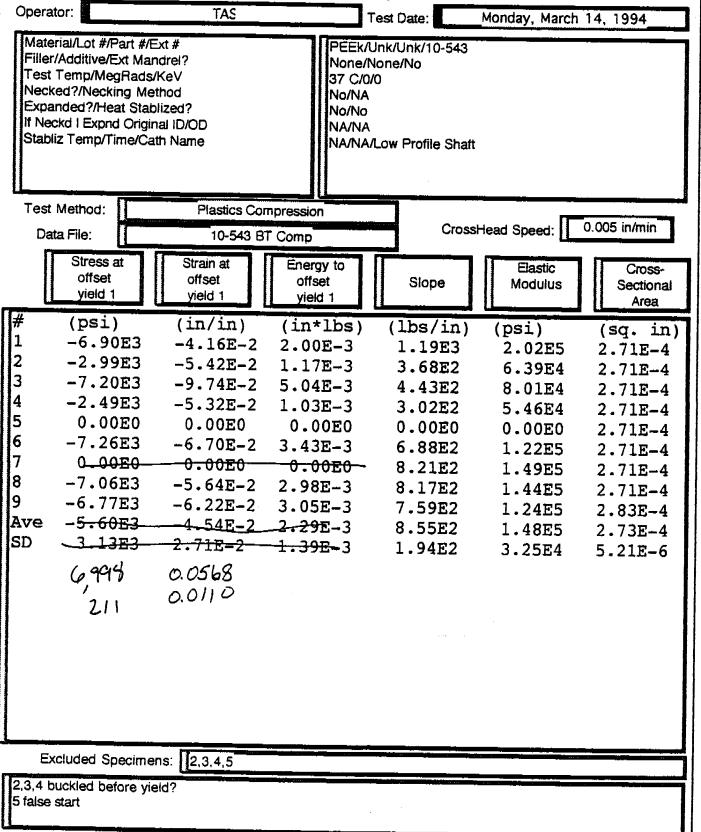
Test run on Shaft Technology Group's Instron Universal Tester Model 4502 Data acquired and analyzed using LabView2 for Macintosh. Vers. 1.1 Operator: TAS Monday, March 14, 1994 Test Date: Material/Lot #/Part #/Ext # PEEK/UNK/UNK/Acutech Filler/Additive/Ext Mandrel? None/None/No Test Temp/MegRads/KeV 37 C/0/0 Necked?/Necking Method No/NA Expanded?/Heat Stablized? No/No If Neckd I Expnd Original ID/OD NA/NA Stabliz Temp/Time/Cath Name NA/NA/Low Profile Shaft Test Method: Plastics Ultimates 20.000 in/min Data File: CrossHead Speed: PEEK Acutech - Ults Stress Strain Load Stress Strain Crossat at at Sectional Max Load Max Load Max Load Break Break Area (psi) (in/in) (lbs) (psi) (in/in) (sq. in) 1 1.41E4 5.50E-1 5.48E0 1.42E4 5.63E-1 3.90E-4 2 1.40E4 5.33E-1 5.44E0 1.39E4 5.36E-1 3.90E-4 3 1.48E4 6.37E-1 5.76E0 1.48E4 6.37E-1 3.90E-4 4 1.46E4 6.27E-1 5.69E0 1.46E4 6.30E-1 3.90E-4 5 1.39E4 5.30E-1 5.42E0 1.42E4 5.57E-1 3.90E-4 Ave 1.43E4 5.75E-1 5.56E0 1.43E4 5.85E-1 3.90E-4 SD 4.08E2 5.21E-2 1.59E-1 3.50E2 4.56E-2 0.00E0 Excluded Specimens:

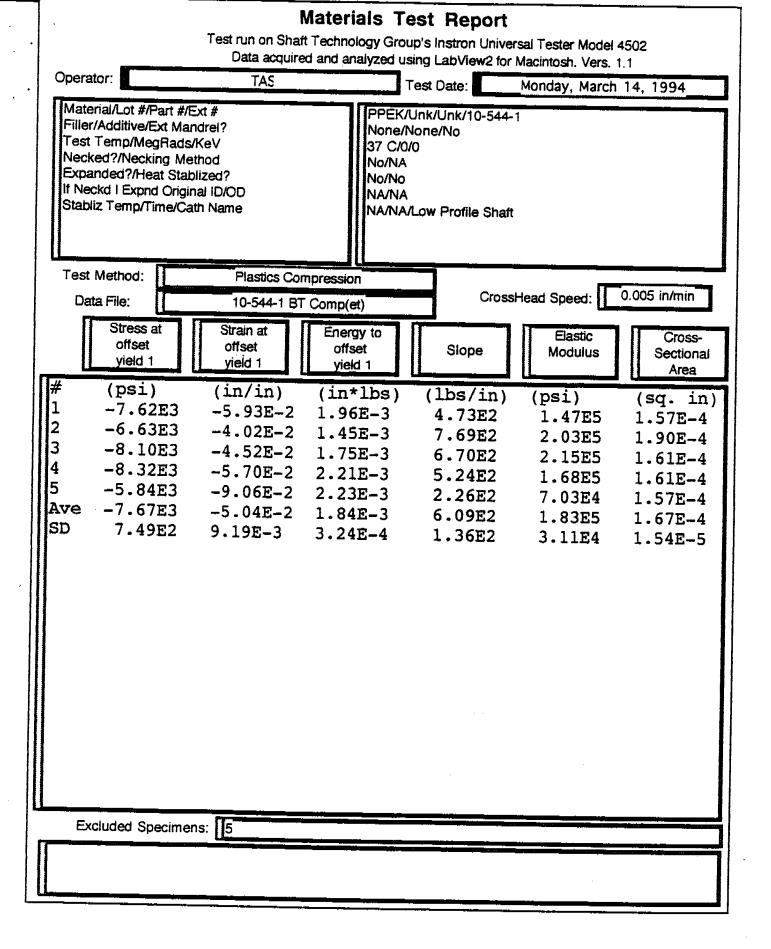


Materials Test Report Test run on Shaft Technology Group's Instron Universal Tester Model 4502 Data acquired and analyzed using LabView2 for Macintosh. Vers. 1.1										
Operator:	TAS		st Date:	Monday, March						
Material/Lot #/Part #/Ext # Filler/Additive/Ext Mandrel? Test Temp/MegRads/KeV Necked?/Necking Method Expanded?/Heat Stablized? If Neckd Expnd Original ID/OD Stabliz Temp/Time/Cath Name PEEK/Unk/Unk/Acutech None/None/No No/No No/NA No/NA No/NA No/No NA/NA NA/NA/Low Profile Shaft										
Test Method: Data File:	Plastics Cor PEEK Acu		Cross	sHead Speed:	0.005 in/min					
Stress at offset yield 1	Strain at offset yield 1	Energy to offset yield 1	Slope	⊟astic Modulus	Cross- Sectional Area					
# (psi) 1 0.00E0 2 0.00E0 3 0.00E0 4 0.00E0 5 0.00E0 Nan Ave 0.00E0 SD 0.00E0	(in/in) 0.00E0 0.00E0 0.00E0 0.00E0 NAN 0.00E0 0.00E0	(in*lbs) 0.00E0 0.00E0 0.00E0 0.00E0 0.00E0 0.00E0	(lbs/in) 1.09E3 1.33E3 8.03E2 9.94E2 1.60E3 NAN 1.16E3 3.09E2	(psi) 1.40E5 1.94E5 1.02E5 1.20E5 2.06E5 NaN 1.52E5 4.55E4	(sq. in) 3.90E-4 4.02E-4 3.83E-4 3.96E-4 0.00E0 3.92E-4 7.07E-6					
Excluded Specimens: 6										

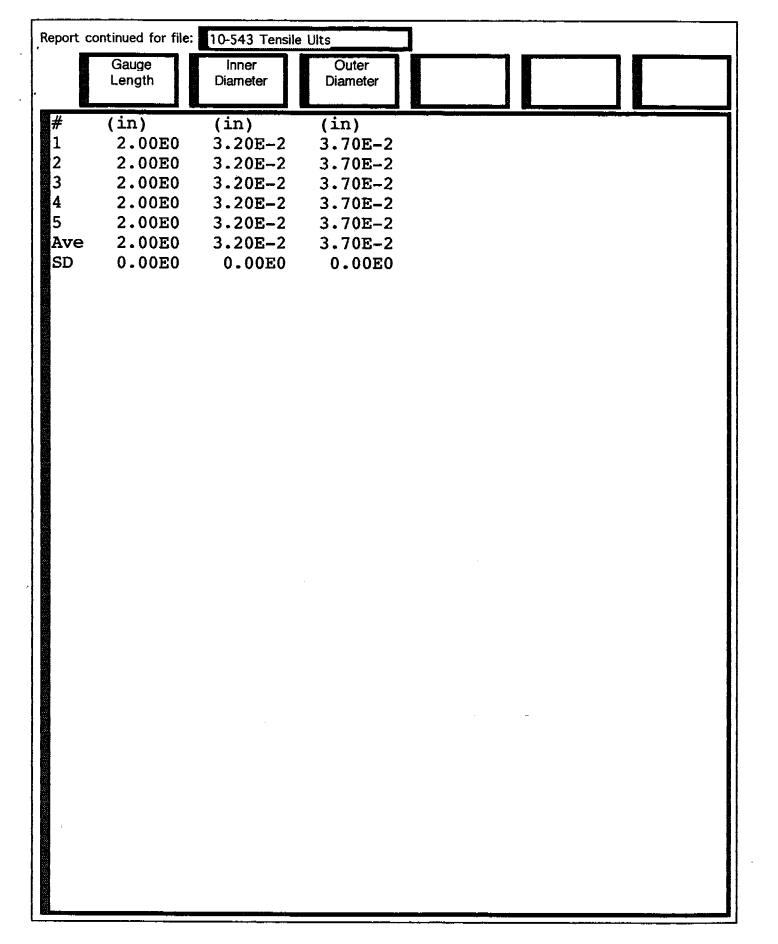


Test run on Shaft Technology Group's Instron Universal Tester Model 4502 Data acquired and analyzed using LabView2 for Macintosh. Vers. 1.1





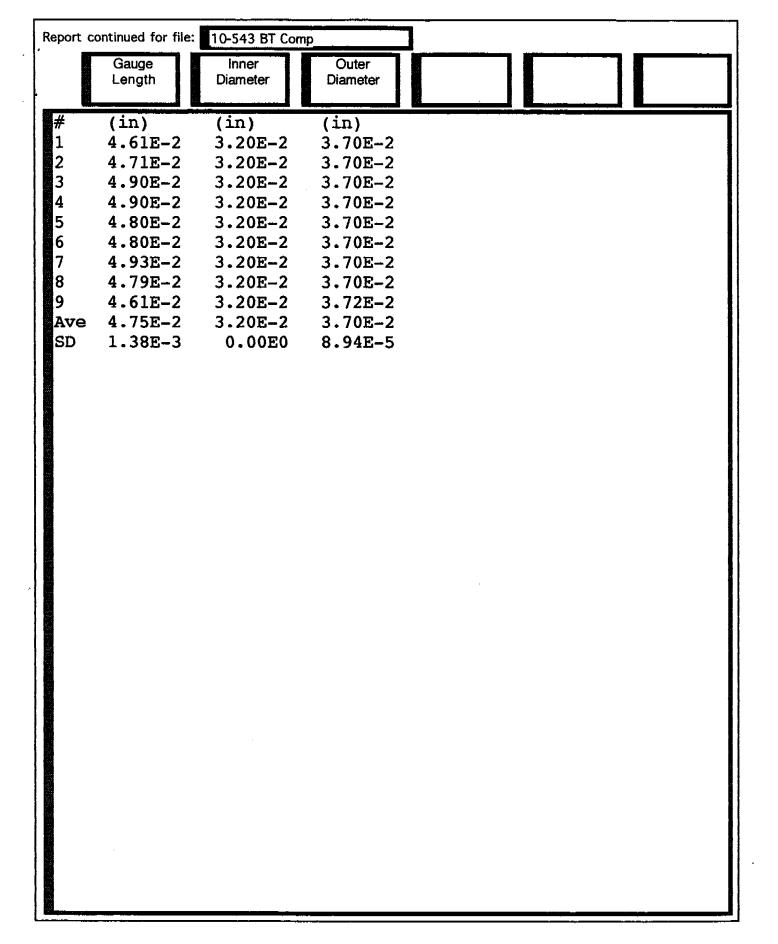
Test run on Shaft Technology Group's Instron Universal Tester Model 4502 Data acquired and analyzed using LabView2 for Macintosh, Vers. 1.1 Operator: TAS Test Date: Monday, March 14, 1994 Material/Lot #/Part #/Ext # PEEK/Unk/Unk/10-543 Filler/Additive/Ext Mandrel? None/None/No Test Temp/MegRads/KeV 37 C/0/0 Necked?/Necking Method No/NA Expanded?/Heat Stablized? No/No If Neckd | Expnd Original ID/OD NA/NA Stabliz Temp/Time/Cath Name NA/NA/Low PRofile Shaft Plastics Ultimates Test Method: 20.000 in/min CrossHead Speed: Data File: 10-543 Tensile Ults Stress Cross-Strain Load Stress Strain at at at at Sectional Max Load Max Load Max Load Break **Break** Area # (psi) (lbs) (in/in) (in/in) (psi) (sq. in) 1 1.67E4 1.25E0 4.53E0 1.75E4 2.71E-4 1.34E0 2 1.71E4 1.28E0 4.62E0 1.71E4 1.28E0 2.71E-4 3 1.81E4 1.41E0 4.91E0 1.81E4 1.41E0 2.71E-4 4 1.53E4 1.07E0 4.14E0 1.57E4 1.12E0 2.71E-4 1.95E4 1.55E0 5.28E0 1.95E4 1.56E0 2.71E-4 4.70E0 Ave 1.73E4 1.31E0 1.76E4 1.34E0 2.71E-4 SD 1.56E3 1.81E-1 0.00E0 4.24E-1 1.40E3 1.61E-1 Excluded Specimens:



Test run on Shaft Technology Group's Instron Universal Tester Model 4502 Data acquired and analyzed using LabView2 for Macintosh. Vers. 1.1 Operator: TAS Test Date: Monday, March 14, 1994 Material/Lot #/Part #/Ext # PEEk/Unk/Unk/10-543 Filler/Additive/Ext Mandrel? None/None/No Test Temp/MedRads/KeV 37 C/0/0 Necked?/Necking Method No/NA Expanded?/Heat Stablized? No/No NA/NA If Neckd I Expnd Original ID/OD Stabliz Temp/Time/Cath Name NA/NA/Low Profile Shaft Plastics Compression Test Method: 0.005 in/min CrossHead Speed: 10-543 BT Comp Data File: Stress at Strain at Elastic Cross-Energy to offset offset offset Slope Modulus Sectional yield 1 yield 1 yield 1 Area # (psi) (in/in) (in*lbs) (lbs/in) (psi) (sq. in) 1 -6.90E3 -4.16E-2 2.00E-3 1.19E3 2.02E5 2.71E-4 2 -2.99E3 -5.42E-2 1.17E-3 3.68E2 6.39E4 2.71E-4 3 -7.20E3 -9.74E-2 5.04E-3 4.43E2 8.01E4 2.71E-4 4 -2.49E3 -5.32E-2 1.03E-3 3.02E2 5.46E4 2.71E-4 5 0.00E0 0.00E0 0.00E0 0.00E0 0.00E0 2.71E-4 6 -7.26E3 -6.70E-23.43E-3 6.88E2 1.22E5 2.71E-4 7 0-00E0 0.00E0 -0.00E0-8.21E2 1.49E5 2.71E-4 8 -7.06E3 -5.64E-2 2.98E-3 8.17E2 1.44E5 2.71E-4 9 -6.77E3 -6.22E-2 3.05E-3 7.59E2 1.24E5 2.83E-4 Ave -5.60E3 -4-54E-2 2-29E-3 8.55E2 1.48E5 2.73E-4 SD -3.13E3 2.71E=2 1.39E-3 1.94E2 3.25E4 5.21E-6 0.0568 0.0110 Excluded Specimens: 12,3,4,5

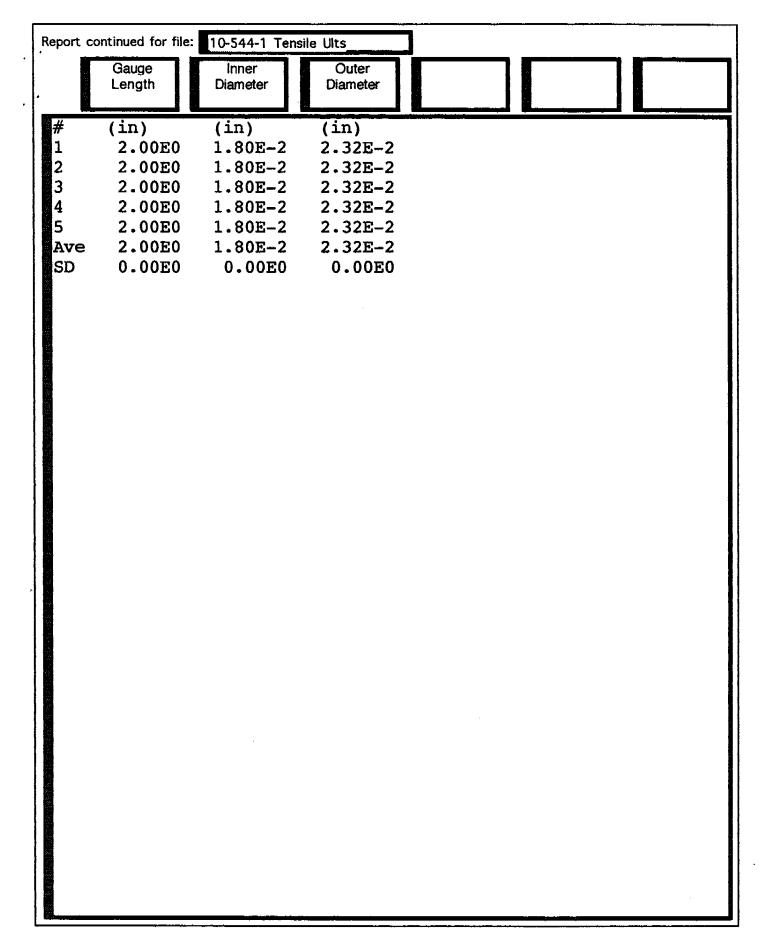
2,3,4 buckled before yield?

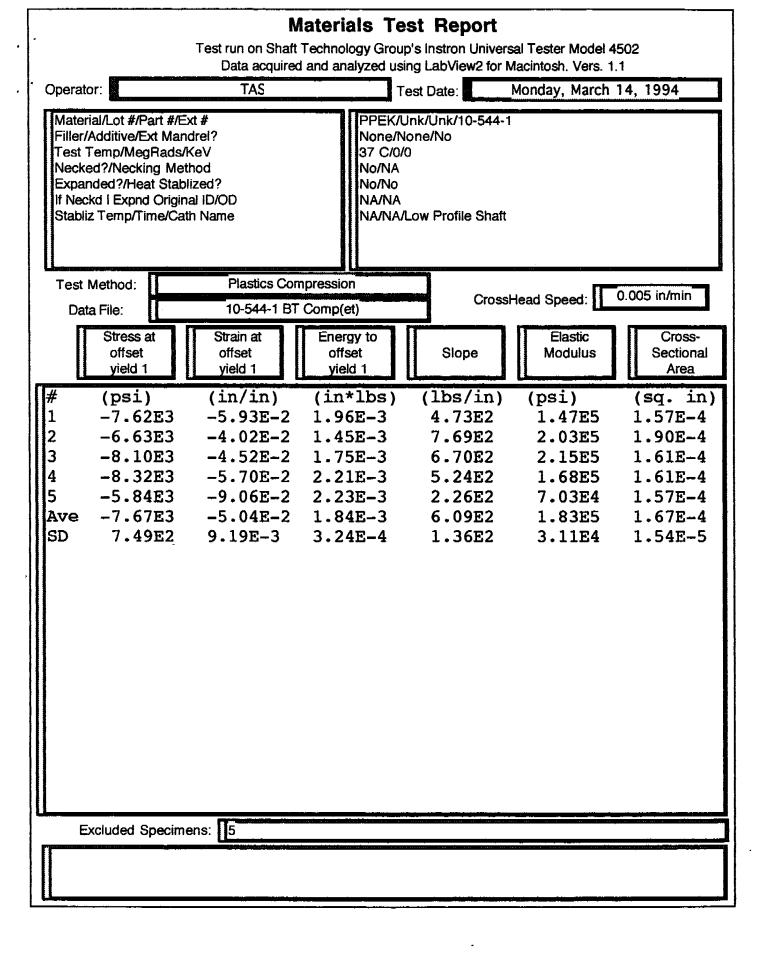
5 false start

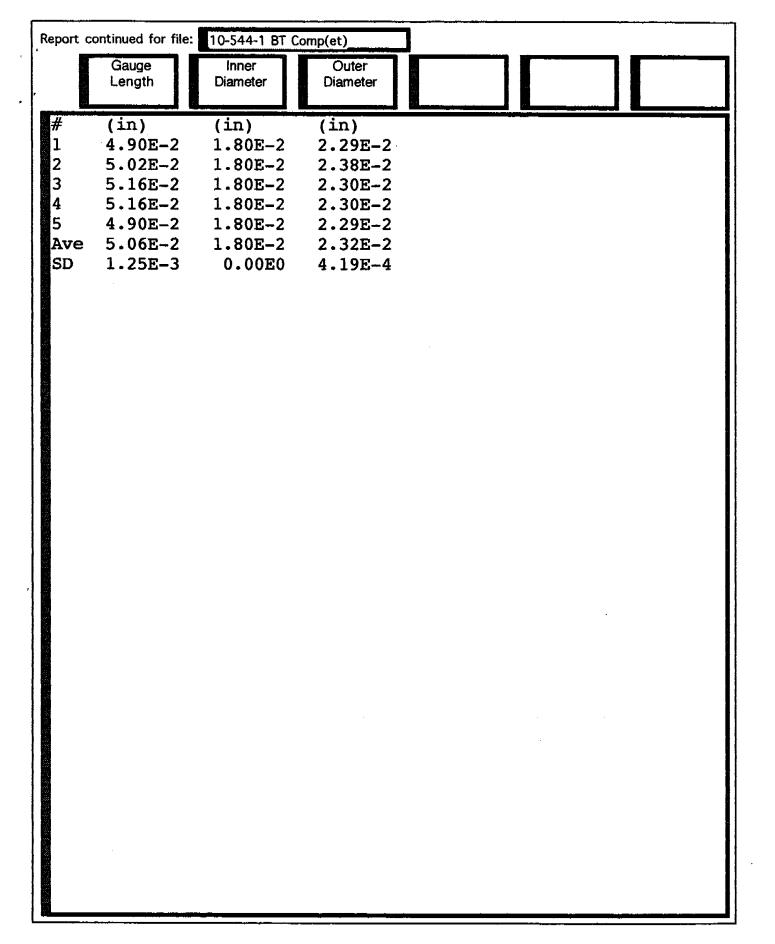


Test run on Shaft Technology Group's Instron Universal Tester Model 4502
Data acquired and analyzed using LabView2 for Macintosh. Vers. 1.1

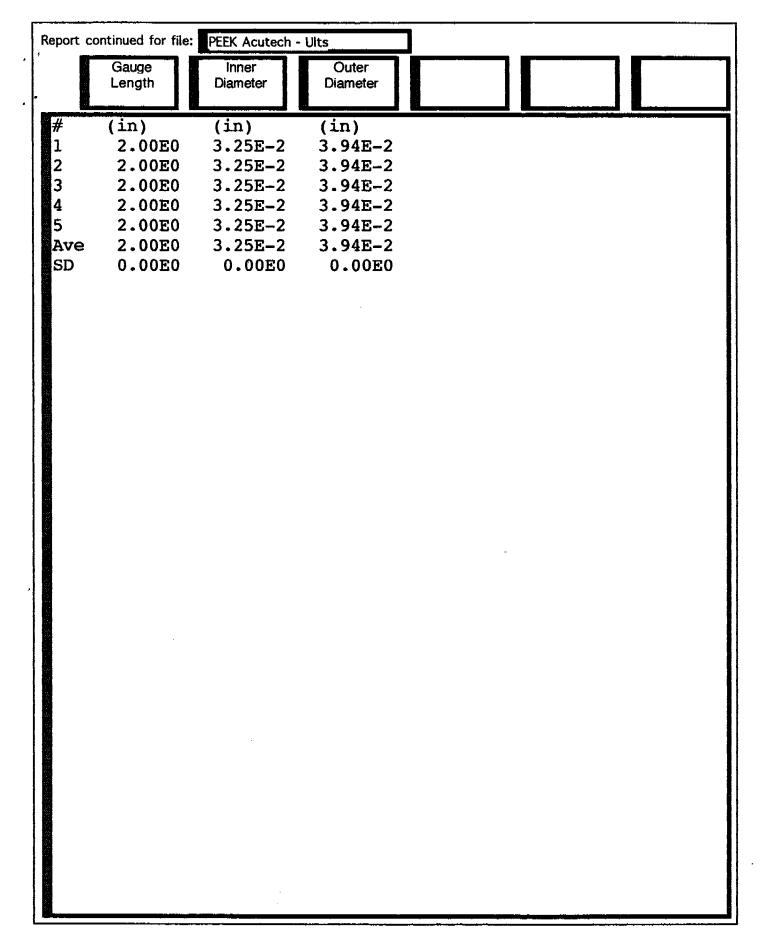
Operator: TAS					Test Date: Monday, March 14, 1994				
Filler Test Neck Expa If Nec	rial/Lot #/Part #/E /Additive/Ext Man Temp/MegRads/ ted?/Necking Me inded?/Heat Stab okd I Expnd Origin iz Temp/Time/Ca	idrel? KeV thod lized? nal ID/OD	None/ 37 C/0 No/NA No/No NA/NA	None 1/0	Unk/10-544 /No V PROFILE S				
	Method:	Plastics U			Cros	sHead	Speed:	20.000 in/min	
. Da	ta File: Stress at Max Load	Strain at Max Load	Load at Max Load		Stress at Break		Strain at Break	Cross- Sectional Area	
# 1 2 3 4 5 Ave SD	(psi) 3.07E4 3.39E4 3.08E4 2.96E4 2.52E4 3.01E4 3.17E3	(in/in) 1.56E0 1.78E0 1.54E0 1.47E0 1.14E0 1.50E0 2.34E-1	(1bs) 5.17E0 5.71E0 5.19E0 4.99E0 4.23E0 5.06E0 5.33E-1		psi) 3.12E4 3.43E4 3.10E4 3.10E4 2.72E4 3.09E4 2.53E3		in/in) 1.60E0 1.81E0 1.55E0 1.57E0 1.30E0 1.56E0 .82E-1	(sq. in) 1.68E-4 1.68E-4 1.68E-4 1.68E-4 1.68E-4 0.00E0	
	Excluded Specim	ens. [L		, , , , , , , , , , , , , , , , , , , 					







Data acquired and analyzed using LabView2 for Macintosh. Vers. 1.1										
Operator: TAS					Test Date: Monday, March 14, 1994					
Material/Lot #/Part #/Ext # Filler/Additive/Ext Mandrel? Test Temp/MegRads/KeV Necked?/Necking Method Expanded?/Heat Stablized? If Neckd I Expnd Original ID/OD Stabliz Temp/Time/Cath Name PEEK/UNK/UNK/Acutech None/None/No No/No No/No No/NA No/No NA/NA NA/NA/Low Profile Shaft										
	Method:			Ultimates	CrossHead Speed: 20.000 in/min					
Da F	ta File:			utech - Ults				Strain	C-200	
	Stress at Max Loa	d	Strain at Max Load	Load at Max Load	at			Cross- Sectional Area		
# 1 2 3 4 5 Ave SD	(psi) 1.41 1.40 1.48 1.46 1.39 1.43 4.08	E4 E4 E4 E4 E4	(in/in) 5.50E-1 5.33E-1 6.37E-1 6.27E-1 5.30E-1 5.75E-1 5.21E-2	(1bs) 5.48E0 5.46E0 5.76E0 5.69E0 5.42E0 5.56E0 1.59E-1		psi) 1.42E4 1.39E4 1.48E4 1.46E4 1.42E4 1.43E4 3.50E2	5 5 6 6 5 5	in/in) .63E-1 .36E-1 .37E-1 .30E-1 .57E-1 .85E-1 .56E-2	(sq. in) 3.90E-4 3.90E-4 3.90E-4 3.90E-4 3.90E-4 0.00E0	
Excluded Specimens:										
						agencies de la chilitaria.				



Materials Test Report									
Test run on Shaft Technology Group's Instron Universal Tester Model 4502 Data acquired and analyzed using LabView2 for Macintosh. Vers. 1.1									
Operator: TAS Test Date: Monday, March 14, 1994									
Material/Lot #/Part #/Ext # Filler/Additive/Ext Mandrel? Test Temp/MegRads/KeV Necked?/Necking Method Expanded?/Heat Stablized? If Neckd I Expnd Original ID/OD Stabliz Temp/Time/Cath Name PEEK/Unk/Unk/Acutech None/None/No 37 C/0/0 No/NA No/NA No/NA No/No NA/NA NA/NA/Low Profile Shaft									
Test Method:			Compression	Cros	ssHead Speed:	0.005 in/min			
Data File:	Щ_		cutech(et)						
Stress offset yield		Strain at offset yield 1	Energy to offset yield 1	Slope	Elastic Modulus	Cross- Sectional Area			
Ave 0.00 SD 0.00	0E0 0E0 0E0 0E0 0E0 0E0 0E0	(in/in) 0.00E0 0.00E0 0.00E0 0.00E0 NaN 0.00E0 0.00E0	(in*lbs) 0.00E0 0.00E0 0.00E0 0.00E0 0.00E0 0.00E0	(lbs/in) 1.09E3 1.33E3 8.03E2 9.94E2 1.60E3 NAN 1.16E3 3.09E2) (psi) 1.40E5 1.94E5 1.02E5 1.20E5 2.06E5 NaN 1.52E5 4.55E4	(sq. in) 3.90E-4 4.02E-4 3.83E-4 3.96E-4 0.00E0 3.92E-4 7.07E-6			
Excluded S	Excluded Specimens: 6								

